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NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590

11/16/2009

KENYON & KENYON LLP 1500 K STREET N.W. WASHINGTON, DC 20005 EXAMINER

SHAIKH, MOHAMMAD Z

ART UNIT PAPER NUMBER

3696 DATE MAILED: 11/16/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/673,442	09/30/2003	Diane Simona Bettina Schmidt	11884/406301	2618

TITLE OF INVENTION: MANAGEMENT OF INTRA-DAY INTEREST CALCULATIONS FOR BANK ACCOUNTS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/16/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/673,442 FITLE OF INVENTION	09/30/2003 : MANAGEMENT OF I		iane Simona Bettina Schmi Γ CALCULATIONS FOR			11884/406301	2618
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	02/16/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
SHAIKH, MO	HAMMAD Z	3696	705-042000				
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Unl recordation as set fort! (A) NAME OF ASSIG	ND RESIDENCE DATA less an assignee is identi h in 37 CFR 3.11. Comp GNEE	"Indication form led. Use of a Customer A TO BE PRINTED ON This ified below, no assignee soletion of this form is NO	(B) RESIDENCE: (CITY	ely, elirm (having as a gent) and the name neys or agents. If rorinted. e) tent. If an assigne assignment. and STATE OR Co	members of upon name	er a 2	ocument has been filed for
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	are submitted: To small entity discount p # of Copies	permitted)	#b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
a. Applicant claims	tus (from status indicated s SMALL ENTITY statu	is. See 37 CFR 1.27.	☐ b. Applicant is no long				
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KENYON & KE	NYON LLP	SHAIKH, MOHAMMAD Z			
1500 K STREET N.W. WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER	
			3696		
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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1009 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1009 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
Notice of Allowability	10/673,442	SCHMIDT, DIANE SIMONA BETTINA
nouse of the name	Examiner	Art Unit
	MOHAMMAD Z. SHAIKH	3696
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>10/22/09</u> .		
2. The allowed claim(s) is/are <u>1,5-6,8-9,11-15,17-18 and 20</u> .		
 Acknowledgment is made of a claim for foreign priority ur All b)	been received. been received in Application No cuments have been received in this of this communication to file a reply	national stage application from the
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1) 	con's Patent Drawing Review (PTO- s Amendment / Comment or in the C .84(c)) should be written on the drawin	Office action of ags in the front (not the back) of
each sheet. Replacement sheet(s) should be labeled as such in the first of the deposition of the depos	sit of BIOLOGICAL MATERIAL n	nust be submitted. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☑ Examiner's Amendr 8. ☐ Examiner's Stateme 9. ☐ Other	(PTO-413), re
/Hani M. Kazimi/ Primary Examiner, Art Unit 3691		

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DETAILED ACTION

1. The amendment dated 10/22/09 has been considered.

2. Claims 1, 5-6, 8-9, 11-15, 17-18, 20 are allowed.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below, should the changes and/or additions be unacceptable to the applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for the examiner's amendment was given in a telephone interview with attorney Martin E Miller on 10/21/09.

The application has been amended as follows:

The newly amended claims, including the changes made by Examiner's amendment are presented below:

- 1. (Currently Amended) A method for managing intra-day interest calculations for a bank account in an intra-day interest account management system, comprising:
- (a) in response to fluctuations in an account balance of the bank account, setting, by the

intra-day interest account management system, balance determination times for the

account, the balance determination times corresponding to a plurality of points in time

within the span of a single day at which respective net account balances are to be used

in an interest calculation for the account, wherein the balance determination times

define intervals measured in at least one of seconds, minutes, or hours;

(b) determining the balances for the account for the balance determination times, the

determining including only transactions occurring prior to a specific balance determination time within the span of a single day;

- (c) determining applicable conditions for the interest calculation, the conditions relating to an interest rate to be applied based on an interest day type code assigned to the single day, the interest day type code associated with respective different interest rates at which respective net account balances are to be used in the interest calculation for the account, wherein a different interest rate is applied in the interest calculation for at least one of the balance determination times within the single day;
- (d) providing the account balances and applicable conditions to interest calculation logic in the intra-day interest account management system; and
- (e) recording a result of operations by the interest calculation logic in the intra-day interest account management system; and
- (f) presenting on a display device a graphical user interface having user-modifiable data fields providing a mapping of different interest rates to various interest day type codes, wherein the mapping of the different interest rates to each of the various interest day type codes is dependent upon conditions entered in the data fields related to the each of the different interest rates, and the conditions are modified according to user input.

 2 4. (Canceled).
- 5. (Original) The method of claim 1, further comprising assigning a value time to a transaction to the account, the value time corresponding to a time when the transaction is included in a balance determination.

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6. (Original) The method of claim 5, wherein the value time is specified with an accuracy to the second.

- 7. (Canceled)
- 8. (Original) The method of claim 1, wherein based on the conditions, an interest rate used in performing the interest calculation may change from a first time interval to a second time interval.
- 9. (Currently Amended) A method for managing intra-day interest calculations for a bank account, comprising:
- (a) receiving a designation of a bank account to receive intra-day interest calculation;
- (b) receiving transaction information for the account, the transaction information including a value time specifying when a transaction is to be taken into account for interest calculation;
- (c) receiving a specification of a plurality of points in time for determining corresponding account balances for use in calculating an interest on the bank account, wherein the points of time correspond to a plurality of times within a single day and are determined by an intra-day interest account management system in response to intra-day fluctuations in an account balance of the bank account, wherein the points of time define intervals measured in at least one of seconds, minutes, or hours;
- (d) for each of the points in time, determining a corresponding account balance, the account balance at a given point in time at least partly depending on the value time;
- (e) for each of the points in time, determining an applicable interest rate based on an

interest day type code associated with respective different interest rates assigned to the single day at which respective net account balances are to be used in the interest calculation for the account, wherein a different interest rate is applied in the interest calculation for at least one of the balance determination times within the single day; (f) providing the account balances and the applicable interest rates to interest calculation logic; and

- (g) generating a record of interest amounts calculated by the interest calculation logic; and
- (h) presenting on a display device a graphical user interface having user-modifiable data fields providing a mapping of different interest rates to various interest day type codes, wherein the mapping of the different interest rates to each of the various interest day type codes is dependent upon conditions entered in the data fields related to the each of the different interest rates, and the conditions are modified according to user input.
- 10. (Canceled).
- 11. (Original) The method of claim 9, wherein (e) comprises referring to an interest calendar that classifies days according to differing interest day types, each type having an interest rate associated therewith.
- 12. (Currently Amended) A system comprising:
- a memory including computer-executable instructions;
- a processor coupled to the memory to execute the instructions, the instructions comprising:

in response to fluctuations in an account balance of a bank account, setting, by an intraday interest account management system, points of time corresponding to a plurality of times within a single day, wherein the points of time define intervals measured in at least one of seconds, minutes, or hours;

the intra-day interest account management software configured to receive information relating to an intra-day interest calculation, the intra-day interest calculation relating to a calculation of interest on an account for the points of time corresponding to a plurality of times within a single day set by the intra-day interest account management system, the information including:

transaction information including a value time relating to when a transaction to the account is included in the account balance for interest calculation; and conditions applicable to the interest calculation, the conditions relating to interest rates to be applied based on an interest day type code associated with respective different interest rates assigned to the single day at which respective net account balances are to be used in the interest calculation for the account, wherein a different interest rate is applied in the interest calculation for at least one of the balance determination times within the single day; and

a display device presenting a graphical user interface having user-modifiable data fields providing a mapping of different interest rates to various interest day type codes, wherein the mapping of the different interest rates to each of the various interest day type codes is dependent upon conditions entered in the data fields related to the each of the different interest rates, and the conditions are modified according to user input.

13. (Original) The system of claim 12, wherein the intra-day interest account management software is configured to implement a user interface providing for entry of the information.

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- 14. (Original) The system of claim 12, wherein the intra-day interest account management software comprises an interest calendar, the interest calendar classifying days according to differing interest day types, each type having an interest rate associated therewith.
- 15. (Currently Amended) A system comprising:

a memory including computer-executable instructions;

- a processor coupled to the memory to execute the instructions, the instructions when executed implementing a process for managing intra-day interest calculation for a bank account, the instructions comprising:
- (a) in response to fluctuations in an account balance of the bank account, setting, by an intra-day interest account management system, balance determination times for the account, the balance determination times corresponding to a plurality of points in time within the span of a single day at which respective net account balances are to be used in an interest calculation

for the account, wherein the points in time define intervals measured in at least one of seconds, minutes, or hours;

- (b) determining the balances for the account for the balance determination times;
- (c) determining applicable conditions for the interest calculation, the conditions relating to an interest rate to be applied based on an interest day type code associated with

respective different interest rates assigned to the single day at which respective net account balances are to be used in the interest calculation for the account, wherein a different interest rate is applied in the interest calculation for at least one of the balance determination times within the single day;

- (d) providing the account balances and applicable conditions to interest calculation logic; and
- (e) recording a result of operations by the interest calculation logic; and

 (f) a display device presenting a graphical user interface having user-modifiable data

 fields providing a mapping of different interest rates to various interest day type codes,

 wherein the mapping of the different interest rates to each of the various interest day

 type codes is dependent upon conditions entered in the data fields related to the each

 of the different interest rates, and the conditions are modified according to user input.

 16. (Canceled).
- 17. (Original) The system of claim 15, the process further comprising assigning a value time to a transaction to the account, the value time corresponding to a time when the transaction is included in a balance determination, wherein the value time is specified with an accuracy to the second.
- 18. (Currently Amended) A machine-readable medium storing computer-executable instructions for performing a method for managing intra-day interest calculation for a bank account, the method comprising:
- (a) in response to fluctuations in an account balance of the bank account, setting, by an intra-day interest account management system, setting balance determination times for

the account, the balance determination times corresponding to a plurality of points in time within

the span of a single day at which respective net account balances are to be used in an interest calculation for the account;

- (b) determining the balances for the account for the balance determination times;
- (c) determining applicable conditions for the interest calculation, the conditions relating to an interest rate to be applied based on an interest day type code associated with respective different interest rates assigned to the single day at which respective net account balances are to be used in the interest calculation for the account, wherein a different interest rate is applied in the interest calculation for at least one of the balance determination times within the single day, wherein the balance determination times define intervals measured in at least one of seconds, minutes, or hours;
- (d) providing the account balances and applicable conditions to interest calculation logic;

and

(e) recording a result of operations by the interest calculation logic; and

(f) presenting on a display device a graphical user interface having user-modifiable data fields providing a mapping of different interest rates to various interest day type codes, wherein the mapping of the different interest rates to each of the various interest day type codes is dependent upon conditions entered in the data fields related to the each of the different interest rates, and the conditions are modified according to user input.

19. (Canceled).

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20. (Currently Amended) A machine-readable medium storing computer-executable instructions for performing a method for managing intra-day interest calculation for a bank account, the method comprising:

- (a) receiving a designation of a bank account to receive intra-day interest calculation;
- (b) receiving transaction information for the account, the transaction information including a value time specifying when a transaction is to be taken into account for interest calculation;
- (c) receiving a specification of a plurality of points in time for determining corresponding account balances for use in calculating an interest on the bank account, wherein the points of time correspond to a plurality of times within a single day and are determined by an intra-day interest account management system in response to fluctuations in an account balance of the bank account, wherein the points of time define intervals measured in at least one of seconds, minutes, or hours;
- (d) for each of the points in time, determining a corresponding account balance, the account balance at a given point in time at least partly depending on the value time; (e) for each of the points in time, determining an applicable interest rate based on an interest day type code associated with respective different interest rates assigned to the single day at which respective net account balances are to be used in the interest calculation for the account, wherein a different interest rate is applied in the interest calculation for at least one of the balance determination times within the single day;
- (f) providing the account balances and the applicable interest rates to interest calculation logic; and

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(g) generating a record of interest amounts calculated by the interest calculation logic;

and

(h) presenting on a display device a graphical user interface having user-modifiable

data fields providing a mapping of different interest rates to various interest day type

codes, wherein the mapping of the different interest rates to each of the various interest

day type codes is dependent upon conditions entered in the data fields related to the

each of the different interest rates, and the conditions are modified according to user

input.

21. - 28.

(Canceled).

CONCLUSION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MOHAMMAD Z. SHAIKH whose telephone number is (571)270-3444. The examiner can normally be reached on Monday-Friday (7:30-5); alt Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hani Kazimi can be reached on 571-272-6745. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. Z. S./ Examiner, Art Unit 3696 11/6/2009 Mohammad Z Shaikh Examiner Art Unit 3696

/Hani M. Kazimi/ Primary Examiner, Art Unit 3691